

WELCOME

Thank you for choosing the up-to-date CDM-8200, our new model, developed by top researchers to support the IS-95B system through Qualcomm-manufactured MSM 3100 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing and data & fax services.

Among its many advanced features, the T9 input mode makes it much easier to enter letters into messages and the phonebook. In addition, the CDM-8200 has many user friendly features such as:

- Full Graphic display of 5 text input line and 1 icon line with variable font size.
- Two-way speakerphone for hands-free operation.
- Multilingual (English and Spanish available).
- Enhanced for web browsing & data services (i.e.; wireless internet access, wireless fax send/receive, Openwave.com, Up browser).

IMPORTANT INFORMATION

This CDM-8200 user guide contains very important information about how to handle and use the product. So please read this manual thoroughly. Please make sure that you don't drop the phone, apply any physical impact on, and immerse the phone. And also please pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are related with the unauthorized use of components.

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Chapter 1

BEFORE USING YOUR PHONE

This chapter provides important information about using the CDM-8200 including:

- ✓ Packing List
- ✓ Handset Description
- ✓ Installing, Charging and Removing the Battery

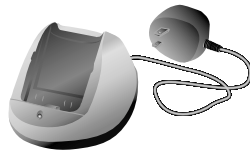
INSIDE THE PACKAGE

This package should include all items pictured below. If any are missing or different, immediately contact the retailer where you purchased the phone.

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Handset



Desktop Charger



Standard Battery



User Manual



Handstrap

6

HANDSET DESCRIPTION

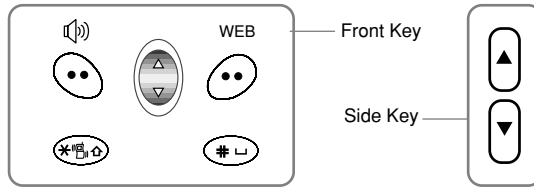
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HANDSET DESCRIPTION

THE FUNCTION KEYS



Front Key

Side Key



Press to make or receive a call.



Press to terminate a call or exit a current page, and turn the phone on/off.



Press to scroll through the items in the menu.



(Soft 1) Press to access the menu or function as shown in the bottom line of the display.



(Soft 2) Press to access the web browser and review a voice or text message, and return to the previous page.



Press to scroll through the items and adjust volume up/down. These are on the left side of the phone.



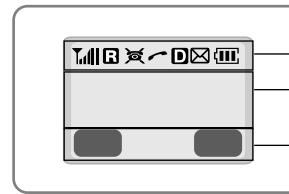
Press and hold to set Manner Mode. In this mode, keypad tone is off and vibrator is on.



Press and hold to set the Keyguard mode.

HANDSET DESCRIPTION

DISPLAY INDICATORS



Icons

Display various icons

Text & Graphic area

Display instructions and messages

Soft Key Indications

Show the functions currently assigned to each soft key and display some icons.



Signal Strength

Current signal strength – the more lines the stronger signal.




Roaming

Phone is out of home area.




Service Indicator

Call is in progress,  indicates the phone is in standby mode.



No Service Indicator

 is displayed, the phone is not receiving a signal from system.



Message

New text or voice message.



Digital mode

Phone operating in digital mode.



Battery

Battery charging level – the more blocks the stronger the charge.



Mute

Phone is mute during a call.



Scratchpad

Appears when scratchpad is in use during a call.



Emergency Call

Blinks when an emergency call is in progress.



Manner Mode

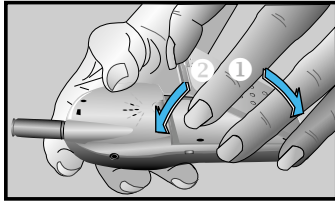
Manner Mode on – phone will vibrate when call is received.

BATTERY USAGE

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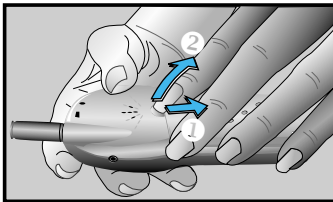
BATTERY INSTALLATION

- 1 Place the battery on the back of the handset and slide into place. 2 Push the battery down until it locks into place.



BATTERY REMOVAL

- 1 Pull down the release latch, 2 lift up the battery and remove the battery from the handset.



NOTE Securely place the battery to avoid slipping off during a call. To avoid losing any unsaved features and messages, turn off the phone before removing the battery.

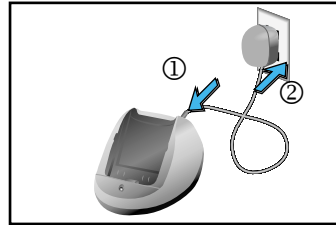
BATTERY USAGE

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BATTERY CHARGING

POWER CONNECTION

- 1 Connect the adapter into the desktop charger and plug it to the standard AC wall outlet.

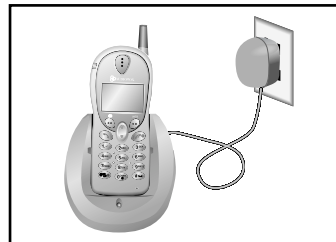


The red LED indicates charging is in progress.

NOTE Fully charge the battery before using – it is not charged when purchased.

CHARGING THE BATTERY WITH THE HANDSET

- 1 Place the handset (with battery attached) into the charger.



NOTE

- It is more efficient to charge the battery with the phone turned off.
- If the red LED does not illuminate when charging, check the power connection and make sure the handset is securely in place.

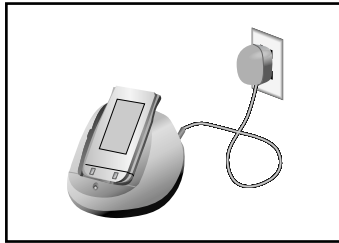
BATTERY USAGE

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CHARGING THE BATTERY ONLY

- 1 Detach battery from handset and place in charger.

- The red LED indicates charging is in progress.
- The green LED indicates charging is completed.



BATTERY LIFE (FOR NEW BATTERY)

The operating time is subject to your handset usage and configuration.

		Standard Battery (950 mAh)
Talk (min)	CDMA	170 min
	AMPS	130 min
	PCS	190 min
Stand by (hrs)	CDMA	160 hrs
	AMPS	12 hrs
	PCS	120 hrs

BATTERY HANDLING INFORMATION

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DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F and 95°F .
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four weeks to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

DON'Ts

- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temps. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

Chapter 2


BASIC OPERATION

This chapter addresses and explains the basic features of your phone including:

- ✓ Accessing the Menu and Menu Options
- ✓ Making and Answering a Call
- ✓ Placing Emergency Calls

TURNING THE PHONE ON / OFF


TURNING THE PHONE ON

- 1 Press and hold [], until the logo appears and the tone sounds.



- When “Password” appears on the display enter your 4-digit password to unlock your phone.
- The default password is the last 4 digits of your phone number.
- The tone will not be heard if keypad volume is set to silent.

TURNING THE PHONE OFF


- 1 Press and hold [] until “Power off” displays.





- Immediately change or recharge the battery when “Low Battery Warning Power Off” appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
- Turn the phone off before removing or replacing the battery. If the phone is on, data may be lost.

ACCESSING THE MENU

Your phone can be customized via the menu. Each function can be accessed by scrolling with the navigation keys or by pressing the number that corresponds with the menu item.

- 1 In the standby mode, press [] to access the menu.

- 2 Use the navigation key or the volume buttons to scroll through the menu.

- 3 Press [] to return to the previous page. Press [] to exit the current menu.

- 4 Select an item with the navigation key or the volume buttons when it is highlighted. Or, press the corresponding number with the digit keys.

- 5 [], [], [], [], [], [], [] enable you to scroll through the menu.

MENU SUMMARY

1 : PHONE BOOK

1 : CALL LOGS

1 : MISSED CALL
2 : ANSWERED CALL
3 : DIALED CALL

2 : SETTING

2 : BY LOCATION
3 : BY NAME

1 : AUTO RETRY
2 : AUTO ANSWER
3 : ONE-TOUCH
4 : VOICE PRIVACY
5 : BACKLIGHT
6 : LCD CONTRAST
7 : LOGO DISPLAY
8 : LANGUAGE
9 : WEB MENU

1 : INTERVAL
2 : REPEAT

1 : WEB IDLE TIME
2 : UP PROXY IP

0 : KEY GUARD

3 : TONE

1 : RING MODE
2 : RING TYPE
3 : KEY PAD
4 : SPEAKER MODE

4 : TIMER

1 : LAST CALL
2 : ALL CALLS
3 : HOME CALLS
4 : ROAM CALLS

5 : SPECIAL

1 : SCHEDULE
2 : STOPWATCH
3 : CALCULATOR
4 : BIORHYTHM

1 : LIST ALL
2 : INPUT SCHEDULE
3 : PAUSE ALL

1 : TODAY
2 : SOMEDAY
3 : BIRTHDAY

MENU SUMMARY

6 : ALERTS

1 : MIN ALERT
2 : ROAM ALERT
3 : FADE ALERT
4 : LOW SIG ALERT
5 : CONNECT ALERT

7 : DATA SERVICE

1 : RECEIVE MODE
2 : FLOW CONTROL

8 : CHANGE SYSTEM

1 : PREF SYSTEM
2 : CHANGE NAM
3 : AUTO NAM
4 : PRL ID
5 : FORCE ANALOG
6 : CALL PROMPT

9 : MY NUMBER

0 : SECURITY

1 : AUTO LOCK
2 : CHANGE CODE
3 : CHANGE BANNER
4 : RESTRICT

5 : RESET
6 : CLEAR

7 : VERSION

1 : INCOMING
2 : OUTGOING
3 : MEMORY
4 : LONG DISTANCE
5 : 900# S

1 : CLR PHONEBOOK
2 : CLR SCHEDULE
3 : CLR CALL LOGS
4 : CLR HOME CALLS
5 : CLR ROAM CALLS

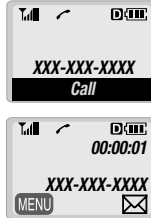
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BASIC FUNCTIONS

MAKING A CALL

1 Enter a phone number.



NOTE To modify the phone number you have entered :

- Press [*] to erase one digit at a time
- Press and hold [*] to erase the entire number and input correct number again.

2 Press [⏪].
The indicator “CALL” appears on the display

- NOTE**
- If “CALL FAILED” appears on the display or the line is busy, press [⏪] to return to the standby screen or [⏪] to try to call again.
 - If you activate the “AUTO RETRY” function, the phone will automatically retry for the number of times you have selected. (refer to page 40)

3 Press [⏩] to end the call.

BASIC FUNCTIONS

PAUSE FEATURE

You can dial or save a phone number with pauses for use in the automated systems where you need to enter a pin number, a social security number, and so on. This feature is convenient if you are linked to ARS (Advanced Record System).

1 Enter a phone number, then press [*].



2 Select one desired pause.

In standby mode

- 1 : STORE
- 2 : BY NUMBER
- 3 : HARD PAUSE
- 4 : ONE HYPHEN

In receiving mode

- 1 : SEND PHONE#
- 2 : SCRATCH PAD
- 3 : MUTE
- 4 : VIEW PHONE#
- 5 : VOICE PRIVACY
- 6 : SPEAKER MODE

* Refer to page 24 for more details.


NOTE Pause Definitions


- To dial or save a phone number with pause functions: When you select Hard Pause, the next numbers are sent by pressing [⏪] key.

3 Press [⏪] to dial or [*] to store.

BASIC FUNCTIONS

ANSWERING A CALL

1 Press any key to answer the call except the volume buttons and [].

2 Press [] to end the call.



In Auto Answer Mode, a call is automatically answered after a present number of ring tones. See page 40 for more details.

CALLER ID FUNCTION



Displays the caller's name and phone number, if available, in the phone book.



The Caller ID is stored in the call log.

CALL WAITING FUNCTION

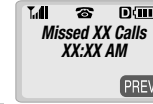
Notifies you of an incoming call when you are on the phone by making a beep sound and displaying the caller's phone number on the screen.

1 Press [] to answer the other call.
This places the first call on hold while answering the second call.
Press [] again to switch back to the first call.

BASIC FUNCTIONS

MISSED CALL DISPLAY

1 Displays the number of missed calls with the time of the last missed call.




Press [] or [] to clear the missed call display.

ADJUSTING VOLUME




Adjust the volume with the volume buttons on the side of the handset or through the menu entry.

1 Volume adjustments are as follows:


- During a call : Earpiece volume
- Standby mode : Ringer volume
- When the phone rings : Ringer volume
- In hands-free car kit : Kit volume. (Press [] to mute the ring when the phone rings)

VIBRATOR

Notifies you of an incoming call by vibrating instead of sounding the ringer tone.

1 Press [] [] [] and select "Vibrator" to enable the function.

MANNER MODE

Allows you to silence the ringer and other tones while attending a meeting or any other time you do not want a ring heard. Press and hold [] key to turn this feature on and off. A happy face appears in the display when Manner Mode is activated.

DURING A CALL

SENDING YOUR NUMBER TO A PAGER

Automatically transmits your phone number to a pager during a call without manually entering the number.

- 1 When connected to a pager and asked to enter your phone number, press [*] [1].

SCRATCH PAD

Stores a new phone number during a call without the calling party hearing the keypad tones.

- 1 While on a call, press [*] [2].
- 2 Enter a phone number, press [*] and, then, save the phone number in the phonebook. (refer to page 30)

MUTE

The caller cannot hear you and any sound from your side, while you can hear his or her voice.

- 1 Press [*] [3].

- To unmute, press [*].



VIEW PHONE

Displays your phone number during a call and automatically returns to the receiving mode in five minutes.

- 1 Press [*] [4].

VOICE PRIVACY

Enhances voice privacy during a call.

- 1 Press [*] [5].

MAKING AN EMERGENCY CALL

An enhanced 911 feature that puts your phone on the Emergency Call Mode when you dial the preprogrammed emergency number, 911. It even operates in the lock mode and out of the service area.

E911 IN LOCK MODE

The 911 call service is available even in the lock mode.

- 1 Enter “911” and press [*].



- 2 The call connects.
- 3 The phone exits the Lock Mode in 5 minutes.

When the call ends, the phone returns to the Lock Mode.

E911 USING ANY AVAILABLE SYSTEM

- 1 Enter “911” and press [*].
- 2 The call connects.
- 3 Reserve emergency mode during 5 minutes.

- When the call ends, the phone returns to the Emergency mode.
- The phone continuously attempts to receive service from any available system.

Chapter 3

MEMORY FUNCTIONS

This chapter addresses memory functions including:

- Storing Phone Numbers
- Entering Letters, Numbers and Characters
- Making Calls Through a Phonebook

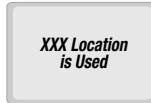
STORING A PHONE NUMBER

The phonebook stores up to 100 numbers.

- 1 Enter a phone number (more than 3 digits) you want to store and press [☎], then [1-9] “Store”



- 2 The next available location number is automatically displayed. Press [☎] to store.



- Enter the location number if you have a specific location number in mind or when you add another phone number to the location already used.
- “XXX LOCATION IS USED” indicates that the location has already stored a phone number.
- Press [☎] to accept the existing name in the location number.

- 3 Enter a name with digit keys (refer to page 30.). Press [☎] to accept the name.



- 4 Use the navigation key to select one of the phone types mobile/home/office and press [☎].

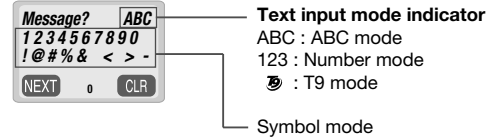


- 5 You can choose to make the entry secret. Select Yes or No for this option and press [☎].



ENTERING LETTERS, NUMBERS & CHARACTERS

The input mode indicator appears on the upper right of the display when letters and numbers are entered. Press [☎] upwards to select the desired input mode among the 4 modes below, then enter letters and numbers you want.



The following illustrates how to utilize the available functions for each assigned key:

KEY	FUNCTION
Mode [☎]	Press upwards to change mode. [T9Abc][Abc][123][Symbol mode]
Next [☎]	Press to view the next matching word if the highlighted word is not the word you intended.
Space [☎]	Press once to accept a word and add a space.
Shift [☎]	Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC], and [abc] indicate the standard text input. [T9Abc], [T9ABC], and [T9abc] indicate the predictive text input.
Clear ☎	Press once to delete a character to the left of the cursor.
Left [☎]	To move the cursor.
Right [☎]	

ENTERING LETTERS, NUMBERS & CHARACTERS

STANDARD INPUT MODE

Enters letters using the digit keys.

- 1 Input the letters using the keypad as follows.

Keypad	1 Time	Repetitions 2 times	Repetitions 3 times	Repetitions 4 times	Repetitions 5 times
1	1	.	@	-	'
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

You can change the input mode by pressing [].

- 2 Press [] to choose lowercase, uppercase, and all caps. Press [] to add a space between letters. The cursor automatically moves to the next column in two seconds.
- 3 Repeat until you enter all the letters you want. There is a 16-digit limit in the Name entry of the phonebook.
- 4 Erasing letters
Press [] to delete one digit.
Press and hold [] to delete the entire number.

Select Abc mode, by pressing [] arrow.

When you select this mode, the abc icon appears as a visual confirmation.

- Find the key that corresponds to the letter you want to enter.
- Press it as many times as needed for the letter to appear on the screen.
- To enter the name "John":

Press [] J
Press [][][] o
Press [][] h
Press [][] n

Location: XX
Name? Abc
STO CLR

Name? Abc
John
STO CLR

ENTERING LETTERS, NUMBERS & CHARACTERS

T9 INPUT MODE

The T9 input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character.

- 1 Select the T9 mode with [].
- 2 Press a digit key once to enter the letters you want.
- 3 Press [] to view the next matching word.
- 4 Press [] to accept the word and add a space.



To write a compound word.

- Write the first part of the word and press [] to accept it.
- Write the last part of the word and press [] to enter the word.



To write "phone book" in the T9 input mode.

- Press [] to select the T9 input mode and [] to choose the smaller letter case (T9abc).

- Press [][][][] and you will see "phone" highlighted. Press [] to view other possible words then press [] to select.

- Press [][][][] and you will see "book" highlighted. Press [] to move to the next matching word and [] to select the compound word or [] to select the compound word and give a space.


Message? abc
Phonebook

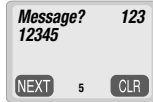
NEXT 9 CLR

ENTERING LETTERS, NUMBERS & CHARACTERS

NUMERIC MODE

Allows you to enter numbers.


- 1 Press [] until the input mode changes to the Numeric mode.



- 2 Press a digit key to enter a number.



SYMBOL MODE

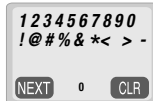
Allows you to enter symbols.



- 1 Press [] until the "Symbol mode" is on.

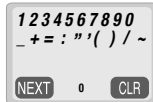
- 2 Press the number for the symbol you want to enter.



- Use the arrow keys on the side of the handset to view a different line of symbols.

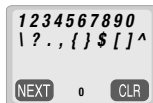
Press [ / ],



Press [ / ],



Press [ / ],




MAKING A CALL THROUGH THE PHONEBOOK

ONE-TOUCH DIALING

Dials a number by simply pressing its location number in the phone book.

00~99 : Press the 1st digit then press and hold the last digit of a location number of the phonebook in the phone book number until the call is connected. Locations 1-9 only require you press and hold the digit.



- "Empty Location" is displayed when there is no phone number stored in the location.
- A phone number that is set to secret will not be displayed.
- A call can also be made by pressing its location number and [].

MEMO

CH
3

Chapter 4

MENU FUNCTION

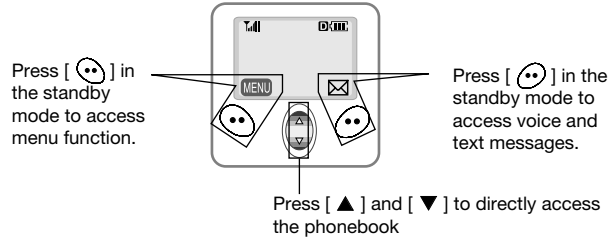
CH
4

This chapter addresses menu functions including:

- ✓ Phonebook
- ✓ Settings
- ✓ Tone
- ✓ Timer
- ✓ Special
- ✓ Alerts
- ✓ Data Service
- ✓ Change System

PHONEBOOK

To access the menu in standby mode, press [☺]. Once in the menu, both [☺] and [☺] functions appear on the bottom line of the display.



CALL LOGS

Displays information about the last 10 missed, answered and dialed numbers. You can place a call to the selected phone number by simply pressing [☺].

MISSED CALLS

- 1 Press [☺] [1-] [1-] [1-].



- 2 Press [☺] to view the detail of a missed call when the number is highlighted.



NOTE Details include date, time, and phone number of missed calls.

- 3 Use the navigation key to scroll through the last 10 missed calls and to select a number.
- 4 Press [☺] to dial the phone number of the missed call.

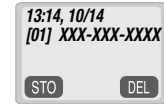
PHONEBOOK

ANSWERED CALLS

- 1 Press [☺] [1-] [1-] [2-].



- 2 Highlight a number and press [☺] to view the details of the answered call.



- 3 Press [☺] to dial the phone number of the answered call.

NOTE Details include date, time, and phone number of answered calls.

DIALED CALLS

- 1 Press [☺] [1-] [1-] [3-].



- 2 Press [☺] to view the details of a dialed call.



- 3 Press [☺] to dial the phone number of the dialed call.

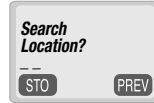
NOTE Details include date, time, and phone numbers of dialed calls.

PHONEBOOK

RECALLING BY LOCATION

Recalls a number from the phonebook by pressing its location number.

1 Press [*] [1..] [2..].



2 Enter a location number.

NOTE Use the navigation key instead of entering a location number to search, and press [*] to view the details of a selected number.

3 Search for a phone number with the navigation key.

- [*] scrolls through the phonebook.
- [*] edits the phone #.
- [*] erases the phone #.
- [*] [*] scrolls through mobile No./office No./home number No./Email Address.

4 To dial the selected number press [*].

PHONEBOOK

RECALLING BY NAME (ALPHA)

Retrieves a phonebook entry by name or its character string and simply makes a call by pressing [*].

1 Press [*] [1..] [3..].

2 Enter a name or its character string and press [*] to sort out and display the searched names in alphabetical order regardless of letter case.



3 Search the name you want to call and locate a phone number using the navigation key.

- [*] edits the phone #.
- [*] erases the number.
- [*] [*] scrolls through mobile No./office No./home number No./Email Address.

4 Press [*] to dial the searched number.

SETTING

AUTO RETRY

Automatically retries a call up to 5 times after a set time interval.

INTERVAL

- 1 Press [] [] [] [].
- 2 Select a time interval option (off/3 seconds/5 seconds/7 seconds/10 seconds) with the navigation key. Press [] to save.

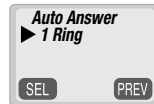
REPEAT

- 1 Press [] [] [] [].
- 2 Select one of the options (1 time/3 times/5 times) with the navigation key. Press [] to save.

AUTO ANSWER

Automatically answers a call after a preset number of rings. An ideal setting for the hands-free car kit.

- 1 Press [] [] [].



- 2 Select one from (Off/1 ring/3 rings) with the navigation key. Press [] to save.

NOTE This function will not be activated when you select Slide bell, Vibrator, Silent, or Bell after vib as a ring mode.

SETTING

ONE-TOUCH DIALING

Dials a phone number with one touch of the location number.

- 1 Press [] [] [].



- 2 Select “Yes” or “No” with the scroll key. Press [] to save.

NOTE Selecting No will disable one-touch dialing. See page 33.

VOICE PRIVACY

Enhances voice privacy and the level of encryption your call is sent over the network. This is system dependent.

- 1 Press [] [] [].



- 2 Select either “Standard Mode” or “Enhanced Mode”, if available. Press [] to save.

BACKLIGHT

Backlights the display and keypad for easy viewing in dark places.

- 1 Press [] [] [].



- 2 Select one of the following options (off/10 seconds/20 seconds/30 seconds/Off in day) with the navigation key. Press [] to save.

- Off : Turns the backlight off.
- 10 sec, 20 sec, 30 sec: Backlight is on for 10, 20 or 30 seconds respectively after a touch of the keypad.
- Off in day : Always off in a daytime.

SETTING

LCD CONTRAST

The LCD display contrast can be controlled in 7 levels.

- 1 Press [] [] [] then the navigation key to adjust the LCD contrast for better view.



- 2 Press [] to save.

LOGO DISPLAY

Allows you to select the logo to be displayed on screen.

- 1 Press [] [] [].



- 2 Select either “DIGITAL WATCH” or “DATE & TIME”, then press [] to save.

LANGUAGE

Selects the language displayed on screen.

- 1 Press [] [] [] to select either “English” or “Spanish”.



- 2 Press [] to save.

SETTING

WEB MENU

Adjusts or changes the settings for web browsing.

WEB IDLE TIME

This function disconnects your phone from a network when there is no key input for a certain time period.

- 1 Press [] [] [] [] to set the web idle timer.



- 2 Use the navigation key to set the web idle timer or press digit keys to enter the time on your own.

UP PROXY IP

The phone can have up to 3 sets of the server IP (Internet Protocol) addresses and Port numbers to access your service provider's website. These may already be preset or be separately programmed by your service provider. Please note that any change to these settings may disable Web access capability.

KEY GUARD

- 1 Press [] [] [].



- 2 Select either “ON”, “OFF” or “POWER ON”, then press [] to save.

TONE

RING MODE

Selects the ringer mode to alert you to incoming calls.

- 1 Press [] [] [].
- 2 Select one of the following options (Ringers/Slide/bell/Vibrator/Silent/Bell after vib) with the navigation key.
 - Ringer
 - Slide bell : The bell volumes up in 5 steps.
 - Vibrator
 - Silent
 - Bell after Vib : The bell rings after 10 vibrations.
- 3 Press [].

RING TYPE

Selects the ring type to alert you of an incoming call:

- 1 Press [] [] [].
- 2 Select one of 13 available ring types.
 - Tones (1-6).
 - Melodies (7-13).
- 3 Press [].



KEYPAD

This function enables you to control the volume of the keypad tones.

- 1 Press [] [] [] to adjust the keypad volume.
- NOTE** The keypad tone will not be heard when the low battery alert is set.
- 2 Adjust the keypad tone volume with the navigation key.
 - 3 Press [].

TONE

SPEAKER MODE

- 1 Press and hold [] until "Speaker Mode On" is displayed or press [] [] [].
- 2 Select "NORMAL MODE" or "SPEAKER MODE" with the navigation key. Press [].

TIMER

Checks the talk time and manages your calls within the limit you set. The four timers include:

LAST CALL

Displays talk time of last call.

- 1 Press [] [] [].

ALL CALLS

Displays talk time of all incoming and outgoing calls, excluding web access calls.

- 1 Press [] [] [].

HOME CALLS

Displays talk time of all calls made within Home area.

- 1 Press [] [] [].

ROAM CALLS

Displays talk time of roaming calls.

- 1 Press [] [] [].

SPECIAL

SCHEDULE

Organizes and tracks your schedule.

LIST ALL Lists and displays scheduled activities.

- 1 Press [] [] [] [].
Pressing [] displays schedule details.

INPUT SCHEDULE Inputs your schedule and sets its alarm.

- 1 Press [] [] [] [].

- 2 Select a date in the calendar and press [].

[] / [] - month input.
[] / [], numeric key - day input.

- 3 Select one of the following options.

Alarm type: Press []. Select One time or Daily, then press [].
Schedule title: Press []. Input a schedule title, then press [].
Phone number: Press []. Input a phone number and reserve a call then press [].

- 4 Then press [].

- 5 Set the time & time of day for the schedule. Use the navigation key to choose AM or PM. Press [] to select the time. Use the navigation key or the digit keys to change the time. Press [] to save.

PAUSE ALL Places all schedules on hold.

- 1 Press [] [] [] [].

- 2 Select "Yes" or "No" with the navigation key and press [].

SPECIAL

STOPWATCH

- 1 Press [] [] [].

- 2 Press [] / [] to use the stopwatch.



Press [] to start or stop.
Press [] for Split/Split Release /Initial/Previous.
The time is displayed in a 100th unit of a second.

- 3 Press [] to exit and return to the initial display.

CALCULATOR

- 1 Press [] [] [].



- 2 To use the calculator.

Definitions
+ : [], - : [], × : [], ÷ : [], = : [].
You can enter up to 8 integer digits.
There is no way to enter a decimal point.
To express a negative number, you subtract its absolute value from 0.



To calculate 128 × 32 =

1. Enter 128
2. Press []
3. Enter 32
4. Press [] to calculate it.

SPECIAL

BIORHYTHM

Provides your physical, emotional and intelligent condition for today or a specific day. You will have input your birthday before using this function.

1 Press [] [] [].



2 Press [] "BIRTHDAY".
Enter your birthday in year/
month/day, then press [].

3 Select "Today" to check out your biorhythm for today or "Someday" to check out your biorhythm for a specific day.

- The biorhythm functions only when the phone can synchronize with the network system.
- You cannot enter a date earlier than your birthday to check out the biorhythm for the specific date.
- You cannot enter your birthday later than today, either.

NOTE

- **What is the biorhythm?**
Biorhythm is a life rhythm that consists of three rhythm curves, which are a physical, emotional and intelligent ones. The rhythm will match up to your condition from birth to death.
- **How does it work?**
You will see a physical, emotional, and intelligent quotient with a number indicating how many days have passed from birth to date. The biorhythm is displayed on the upper portion of the screen.
- **1 Physical rhythm**
The physical rhythm controls your physical condition in a cycle of 23 days, such as resistance to diseases, muscle strength, agility, speed, physiology, and so on.
- **2 Emotional rhythm.**
The emotional rhythm manages creativity, sensitivity, recognition and human nature in a cycle of 28 days.
- **3 Intelligent rhythm.**
The intelligent rhythm affects our susceptibility to fright, acceptance of knowledge, logical and analytic power, and memory in a cycle of 33 days.

ALERTS

MIN ALERT

Sounds an alert every minute of a phone call.

1 Press [] [] [].

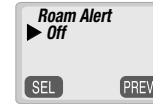


2 Select "On" or "Off" with the navigation key and press [] to save it.

ROAM ALERT

Sounds an alert when leaving a service area and entering a roaming service area.

1 Press [] [] [].

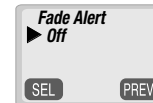


2 Select "On" or "off" with the navigation key and press [] to save it.

FADE ALERT

Sounds an alert when entering an area where calls cannot be made due to weak signal strength. The alert sounds in standby mode.

1 Press [] [] [].



2 Select "On" or "off" with the navigation key and press [] to save it.

ALERTS

LOW SIGNAL ALERT

Sounds an alert when low signal strength is encountered during a call.

1 Press [] [] [].



2 Select "On" or "Off" with the navigation key and press [] to save it.

CONNECT ALERT

Notifies you that a call has been successfully placed.

1 Press [] [] [].



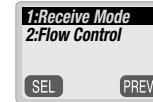
2 Select one of the following options (OFF/LOW/MID/HIGH) with the navigation key. Press [] to save it.

- OFF : Alert Off
- LOW : Calm Alert
- MID : Moderate Alert
- HIGH : Loud Alert

DATA SERVICE

RECEIVE MODE

1 Press [] [] [].



2 Select one from (INACTIVE/DATA/FAX) with the navigation key and press [].

- INACTIVE : In use of the phone
- DATA : For use of data
- FAX : In use of a fax

FLOW CONTROL

Controls data flow when data service is received.

1 Press [] [] [].



2 Select either "HARDWARE" OR "SOFTWARE" with the navigation key and press [] to save it.

- HARDWARE : Hardware flow control
- SOFTWARE : Software flow control
- (RECOMMEND : Hardware flow control)

CHANGE SYSTEM

PREF SYSTEM

Selects the Preferred System.

1 Press [] [] [].



2 Select one of the following options (Automatic A/Automatic B/Home Only) with the navigation key and press [].

- Automatic A : Scan the radio channels based on the Automatic A setting.
- Automatic B : Scan the radio channels based on the Automatic B setting.
- Home Only : Only within your home area or home affiliated area.

CHANGE NAM

Changes the NAM (Number Assignment Modules) used by the phone when you have multiple registrations.

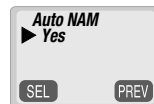
1 Press [] [] [].

2 Select a NAM (NAM1, NAM2) with the navigation key and press [].

AUTO NAM

Automatically switches phone to proper NAM when you have multiple NAM registrations.

1 Press [] [] [].



2 Select "Yes" or "No", then press [] to save it.

CHANGE SYSTEM

PRL ID

Displays the phone's PRL (Preferred Roaming List).

1 Press [] [] [].

FORCE ANALOG

Temporarily forces your phone to use the Analog mode – mode automatically ends in 10 minutes.

1 Press [] [] [].

CALL PROMPT

This function will notify you whether you are to be charged for the incoming call or not.

1 Press [] [] [].

2 Select one of the following options (ON / OFF / 7 seconds) with the navigation key and press [] to save it.

- OFF : Will not display call prompt.
- ON : Display [To be charged] only when the ringer sounds.
- 7 seconds : Display [To be charged] for 7 seconds.



You are to press [] only to place a call when either ON or 1 seconds is set in "Call Prompt".

MY NUMBER

CHECKING MY NUMBER

To display your phone number:

1 Press [*] [9] [*].



Chapter 5

SECURITY FEATURES

This copy addresses security features including:

- ✓ Locking the Phone
- ✓ Changing Your Password
- ✓ Restricting Your Phone
- ✓ Clearing the Memory

LOCKING YOUR PHONE

AUTO LOCK

Prevents others from using your phone without permission. When locked, the menu cannot be accessed.

- 1 Press [] [] and enter your password. Then press [].



NOTE The default password is the last 4 digits of your phone number.

- 2 Select one of the following options (Power On/Off/On) with the navigation key and press [].

“POWER ON” : Locks your phone whenever it is turned on.

“OFF” : Unlocks your phone and leave it unlocked.

“ON” : Locks your phone as it is.

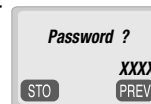
NOTE Even if your phone is locked, you can still make an emergency call, receive an incoming call, and set an alarm function.

CHANGING YOUR CODE

CHANGE CODE

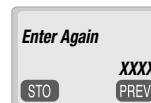
Changes your 4-digit password

- 1 Press [] [] and enter your password. Then press [].



NOTE The default password is the last 4 digits of your phone number.

- 2 Enter a new password and press [].



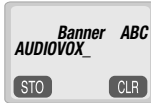
- 3 Enter the new password again and press [].

CHANGING YOUR BANNER

CHANGE BANNER

Changes the banner that displays on the screen. It can be a maximum of 16 characters.

- 1 Press [] [] and enter your password.
Then press [].



- 2 Select an input mode by using [].

(Please refer to page 30 for more details on entering letters and numbers.)

- 3 Enter a new banner, then press [].

RESTRICTING YOUR PHONE

RESTRICT

Prevents the unauthorized use of the phone and the changing of settings. There are 5 different restriction modes available.

- 1 Press [] [] and enter your password.
Then press [].



The default password is the last 4 digits of your phone number.

- 2 Select “Yes” to enable the restriction with the navigation key and press [].

RESTRICTING YOUR PHONE

INCOMING CALLS

Blocks all incoming calls while allowing outgoing calls to be placed.

- 1 Press [] [] and your password, then [].
Select “Yes” and press [].



- 2 Select “Allow” or “Restrict” with the navigation key.

RESTRICT : Restrict an incoming call.
ALLOW : Allow an incoming call.

- 3 Press [].

OUTGOING CALLS

Blocks all outgoing calls except emergency calls from being placed, while allowing incoming calls to be answered.

- 1 Press [] [] and enter your password, then [].
Select “Yes” and press [].



- 2 Select “Allow” or “Restrict” with the navigation key.


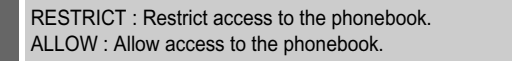
RESTRICT : Restrict an outgoing call.
ALLOW : Allow an outgoing call.

- 3 Press [].

RESTRICTING YOUR PHONE


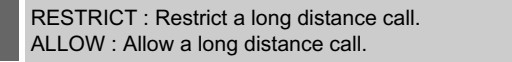
MEMORY

Blocks access to, and protects data in your phonebook.

- 1 Press [] [] and enter your password, then [].
Select “Yes” and press [].

- 2 Select “Allow” or “Restrict” with the navigation key.

RESTRICT : Restrict access to the phonebook.
ALLOW : Allow access to the phonebook.
- 3 Press [] .

LONG DISTANCE CALLS


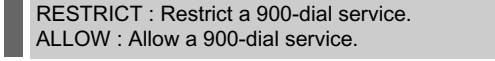
Restricts calling long distance numbers – the phone is limited to calling numbers within the area.

- 1 Press [] [] and enter your password, then [].
Select “Yes” and press [].

- 2 Select “Allow” or “Restrict” with the navigation key.

RESTRICT : Restrict a long distance call.
ALLOW : Allow a long distance call.
- 3 Press [] .

RESTRICTING YOUR PHONE

900 #'S

Restricts calling 900 dial service numbers.

- 1 Press [] [] and enter your password, then [].
Select “Yes” and press [].

- 2 Select “Allow” or “Restrict” with the navigation key.

RESTRICT : Restrict a 900-dial service.
ALLOW : Allow a 900-dial service.
- 3 Press [] .




“This phone is restricted” appears on the display when you attempt to make a restricted call.

RESETTING YOUR PHONE

RESET

Resets phone to default settings.

- 1 Press [] [] and enter your password.
Then press [].

- 2 Select “Yes” or “No” with the navigation key.
Press [] .



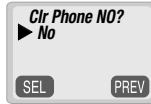
When you select “Yes”, you will see “Reset” on the display, and your phone will return to standby mode.

CLEARING YOUR MEMORY

CLEARING THE PHONEBOOK

Clears all phonebook entries.

- 1 Press [*] [*] [0] [2] and enter your password.
Press [6 MNO] [1 -].



NOTE The default password is the last 4 digits of your phone number.

- 2 Select "Yes" or "No" with the navigation key.
Press [*].

CLEARING SCHEDULES

Clears all schedules.

- 1 Press [*] [*] [0] [2] and enter your password.
Then press [6 MNO] [2 ABC].



- 2 Select "Yes" or "No" with the navigation key.
Press [*].

CLEARING YOUR MEMORY

CLEARING CALL LOGS

Clears all dialed numbers from call logs.

- 1 Press [*] [*] [0] [2] and enter your password.
Then press [6 MNO] [3 DEF].



NOTE The default password is the last 4 digits of your phone number.

- 2 Select "Yes" or "No" with the navigation key.
Press [*].

CLEARING HOME CALLS

Clears airtime used for home calls.

- 1 Press [*] [*] [0] [2] and enter your password.
Then press [6 MNO] [4 GH].



- 2 Select "Yes" or "No" with the navigation key.
Press [*].

CLEARING YOUR MEMORY

CLEARING ROAM CALLS

Clears airtime used for roaming calls.

- 1 Press [] [] and enter your password.
Then press [] [].



The default password is the last 4 digits of your phone number.

- 2 Select "Yes" or "No" with the navigation key.
Press [].

Chapter 6

VOICE MAIL AND TEXT MESSAGE

This chapter provides information on Voice Mails and Text Messages including:

- ✓ Sending Messages
- ✓ Inbox Functions
- ✓ Outbox Functions
- ✓ Settings
- ✓ Filing Messages
- ✓ Erasing Messages

VERSION

VERSION

Displays the version of your phone.

- 1 Press [] [] and enter your password.
Then, press [].



WHEN A NEW MESSAGE ARRIVES

- 1 The following display appears when a new message arrives.



- 2 Press [] to display the received message.

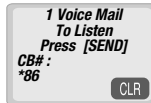


VOICE MAIL

Displays the number of voice mails and accesses them by pressing [].

- 1 Press [] [].

The screen displays the number of new voice mails in your voice mailbox.



Press [] to access your voice mailbox.

SEND NEW

To send a new message:

- 1 Press [] [].

- 2 Input a phone number and press [].



- 3 Input a text message and press [].

(Please refer to page 30 for more details on entering letters and numbers.)



1. SEND

- 1 Press [] to send the text message.

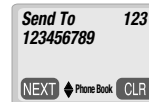
If "Delivery Failed Retry in 3 mins?" appears, press [] to select Auto Retry.



2. EDIT RECIPIENT

Edits the recipient's information – select if a wrong number is entered.

- 1 Press [] to change the recipient.



- 2 Input a new phone number and press [].

- 3 Input a new text message and press [].



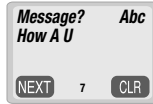
- 4 Press [] to send.

SEND NEW

3. EDIT MESSAGE

Edits messages.

- 1 Press [**3DEF**] to change the text message.
- 2 Input a new text message and press [**AB**].



4. PRIORITY

Marks messages urgent.

- 1 Press [**4GHI**] to send an urgent message. Select "Normal" or "Urgent" with the navigation key and press [**AB**].



5. CALL BACK

Allows you to input a specific call back number. Your phone number is the default.

- 1 Press [**5JKL**] to change the call back number.
- 2 Input a call back number and press [**AB**].



6. SAVE

This allows you to save the message to use later.

- 1 Press [**6MNO**] to save the text message.



7. DELIVERY ACK

When activated confirms if message was successfully delivered.

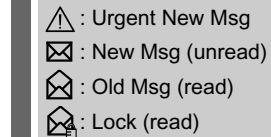
- 1 Press [**7PQRS**] to confirm that your message is delivered. Select "Yes" or "No" with the navigation key.
- 2 Press [**AB**].



INBOX

Manages received text messages.

- 1 Press [**AB**] [**3DEF**].



- 2 Select a message and press [**AB**]. The message is displayed.



- 3 Press [**AB**] to delete the message.

- 4 Press [**AB**] to display the message options.

1. REPLY

- 1 Press [**1.2**] to reply to the text message.



- 2 Type your reply and press [**AB**].
(See page 30 for more information on entering letters, numbers and characters.)



2. ERASE

- 1 Press [**2ABC**] to erase the text message.



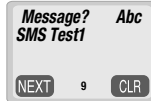
- 2 Press [**AB**] when you see "Erase This Message?".



INBOX

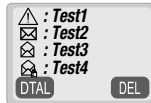
3. FORWARD

- 1 Press [3rd] to forward the text message. Input a phone number and a text message.



4. SAVE

- 1 Press [4th] to save the received text message in the "Filed" Folder.

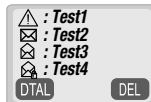


5. SAVE ADDRESS

- 1 Press [5th] to save the call back number of the message into the phone book.

6. LOCK & UNLOCK

- 1 Press [6th] to lock or unlock the text message.
- 2 Select "Lock" or "Unlock" with the navigation key. Then press [7th].



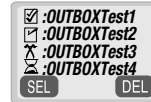
OUTBOX

Manages sent text messages.

CHECKING SENT TEXT MESSAGES

- 1 Press [8th] [4th]. Select a message with the navigation key. Press [9th] to select. Press [8th] to delete.

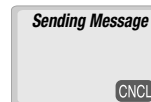
- : Pending to be sent later
- : Not delivered
- : Sent to BS
- : Successfully delivered
- : Not send



- 2 The text message is displayed.
- 3 Press [9th] to delete.
- 4 Press [8th] to display the message options.

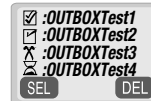
1. RESEND

- 1 Press [1st] to resend the text message.



2. ERASE

- 1 Press [2nd] to erase the text message and press [8th].



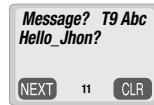
OUTBOX

3. SEND TO

- 1 Press [**3DEF**] to send the message to another person.



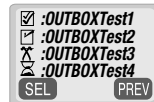
- 2 Input a phone number and press [**2**].



- 3 Press [**2**].

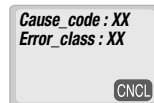
4. SAVE

- 1 Press [**4DEF**] to save the sent text message in the "Filed" folder.



5. STATE

- 1 Press [**5DEF**] to display the state of the sent message.



SETTINGS

Manages messaging features through various options.

SAVE SENT MESSAGES

Saves all sent message.

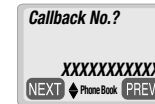
- 1 Press [**2**] [**5DEF**].
- 2 Press [**1-2**].
Select one from (No/Yes/Prompt) with the navigation key.
Press [**2**].



DEFAULT CALL BACK NUMBER

Edits a default call back number so that the recipient can call back or reply.

- 1 Press [**2**] [**5DEF**].
- 2 Press [**2DEF**].
Input a call back number.
Then press [**2**].



MESSAGE ALERT

Enables phone to alert you of an incoming message.

- 1 Press [**2**] [**5DEF**].
- 2 Press [**3DEF**].
Select one from (Ringer/Vibrate/Silent/Ringer & Remind/Vibrate & Remind) with the navigation key.



Ringer & Remind or Vibrate & Remind rings or vibrates respectively every 2 minutes to remind you of an incoming message. They will be cleared when any key is pressed.

- 3 Press [**2**].

SETTINGS

DELIVERY ACK

Activates Delivery Acknowledgement to confirm delivery of messages.

- 1 Press [] [].
- 2 Then press [].
Select “Yes” or “No” with the navigation key.
Press [] to save.



AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

- 1 Press [] [].
- 2 Press []. Select “Inbox” or “Outbox” with the keypad.
- 3 Select “Disable” or “Old Inbox” with the navigation key.
- 4 Press [].



ENTRY MODE

Sets an Entry Mode as a default. The T9 mode indicator will appear whenever the input mode is activated if the T9 mode is set as a default.

- 1 Press [] [].
- 2 Then press [].
Select “T9 Mode” or “Alpha Mode” with the navigation key.
Press [] to save.



FILED

FILED

Manages saved messages from the Inbox/Outbox.

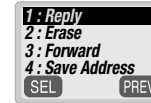
- 1 Press [] [].
Select a text message with the navigation key.
Press [].



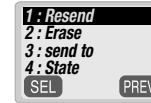
- 2 The text message is displayed.
Press [].



- 3 If the text message is saved from “Inbox” menu, this screen will be displayed.



If the text message is saved from “Outbox” menu, this screen will be displayed.





- 4 Select one by pressing [].


ERASE MESSAGES

Erases all the messages from the Inbox, Outbox or Filed folder.


ERASE MESSAGES

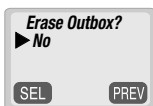
- 1 Press [] [].




- 2 Press [] to erase the inbox messages. Select “Old Inbox” or “Entire Inbox” with the navigation key.



Press [] to erase the outbox messages. Select “Yes” or “No” with the navigation key.



Press [] to erase the filed messages. Select “Yes” or “No” with the navigation key.



- 3 Press [] to save it.

Chapter 7

WEB BROWSING

This chapter addresses using your phone to access the Internet. Please contact your service provider for more information on web browsing.

START INTERNET BROWSER

ACCESS THE INTERNET

- 1 To start your Internet browser and access web sites through your wireless handset, press and hold [☺].



BROWSER MENU

The browser menu lists the actions necessary to operate the browser. Press and hold [☺] to access the browser menu.

RELOAD

- 1 Press and hold [☺], then press [1] to reload the current page.



HOME

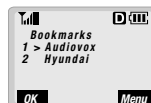
- 1 Press and hold [☺], then press [2] to display the homepage.



BROWSER MENU

BOOKMARKS

- 1 Press and hold [☺], then press [3] to view your bookmark list. The list of frequently visited websites will easily connect you to a website without entering its URL.



MARK SITE

- 1 Press and hold [☺], then press [4] to add the current page to your bookmark list.

"No bookmark service site" is displayed, when the Internet site cannot support the bookmark service.



ABOUT OPENWAVE

- 1 Press and hold [☺], then press [5] to view the browser version and copyright information.



BROWSER MENU

ADVANCED...

- 1 Press and hold [↵], then press [6] to display the Advance menu as follows.



SHOW URL

- 1 Press [1] to display the URL (Uniform Resource Locator) of the current page. The URL is the address of a website.



HOMEPAGE

- 1 Press [2] to change your home page. When you start the web browser, the page will be launched as a home page.



SET WAP PROXY

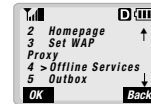
- 1 Press [3] to select an alternate UP.Link.



BROWSER MENU

OFFLINE SERVICES

- 1 Press [4] to allow you to navigate through a list of installed channel applications and guide you to the entry point of the applications.



OUTBOX

- 1 Press [5] to display the number of items that are delivery-pending and how long they have been there.



BROWSER MENU

RESTART UP.BROWSER

- 1 Press [**g**] to clear the history of viewed pages and to start a new session with UP.Link.



ENCRYPTION

- 1 Press [**Trans**] to use for security.



Chapter 8

SAFETY AND WARRANTY

This chapter addresses Safety and Warranty issues including:

- ✓ Antenna Care
- ✓ Driving and Talking on the Phone
- ✓ Use Around Electronic Devices
- ✓ Precautions
- ✓ SAR Information
- ✓ FDA Consumer Update

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

Read This Information Before Using Your Handheld Portable Cellular Telephone

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your phone while driving, please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions so require.

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.



WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

1* : American National Standards Institute.
2* : National Council on Radiation protection and measurements.
3* : International Commission on Nonionizing Radiation Protection.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers :

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

BLASTING AREAS

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES







Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or articles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) AC Adaptor (2) Battery and (3) Product Using Battery.

-  DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
-  DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.
-  DO NOT expose this equipment to rain or spilled beverages.
-  DO NOT use unauthorized accessories.
-  DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized Audiovox cellular service center. If unit is disassembled, the risk of electric shock or fire may result.
-  DO NOT short-circuit the battery terminals with metal items etc.

SAFETY INFORMATION FOR FCC RF EXPOSURE



WARNING! Read this Information before using

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION

This device was tested for typical body-worn operation with the back of the phone kept 0.5 inches (1.27cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.5 inches (1.27cm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. All belt-clips, holsters and similar accessories used by this device must not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure limits and should be avoided.

VEHICLE MOUNTED EXTERNAL ANTENNA (OPTIONAL, IF AVAILABLE)

A minimum separation distance of 7.9 inches (20cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.



For more information about RF exposure, please visit the FCC website at www.fcc.gov

SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT'S RE-QUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.47 W/kg and when worn on the body, as described in this user guide, is 0.499 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

SAR INFORMATION

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on PP4TX-21B.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>.



1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA would require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function;
- and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones.

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wire-less telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency en-ergy coming from wireless phones ?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wire-less phone use.

10.What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wire-less phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11.What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12.Where can I find additional information?

- For additional information, please refer to the following resources:
- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
 - Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety>)
 - International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)
 - World Health Organization (WHO) International EMF Project (<http://www.who.int/emf>)
 - National Radiological Protection Board (UK) (<http://www.nrpb.org.uk/>)

PROTECT YOUR WARRANTY

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

“Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling misuse, neglect or accident”.

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Audiovox product. Be careful. Some of these products may not be compatible to use with your Audiovox product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Audiovox accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Audiovox product.



AUDIOVOX COMMUNICATIONS CORP.

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Audiovox Canada

5155 Spectrum Way, Unit #5, Mississauga, Ontario
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12 MONTH LIMITED WARRANTY

Audiovox Communications Corp. (the Company) warrants to the original retail purchaser of this Audiovox handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.
- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place of purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 905-712-9299).

12 MONTH LIMITED WARRANTY

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

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